METSEPM2230

EasyLogic PM2230, Power & Energy meter, up to the 31st harmonic, LCD display, RS485, class 0.5S





Main

Range	EasyLogic
Product name	EasyLogic PM2200
Device short name	PM2230
Product or component type	Power meter

Complementary

Power quality analysis Total harmonic distortion Up to the 31st harmonic Type of measurement Apparent power min/max, total Active and reactive power min/max, total Current min/max, avg Frequency min/max, avg Apparent energy total Active and reactive energy total Active power Fatch Ti, 12, 13 Peak demand power PM, QM, SM Voltage U, U21, U32, U13, V, V1, V2, V3 Peak demand currents Reactive power P, Q, Q, Q3 Demand power P, Q, S Unbalance current Active, reactive, apparent energy (signed, four quadrant) Apparent power S, S1, S2, S3 Accuracy class Class 1 reactive energy conforming to IEC 62053-24 Class 0.5S active energy conforming to IEC 62053-22 Class 5 harmonic distorsion (I THD & U THD) Measurement accuracy Apparent power +/- 0.5 % Reactive energy +/- 1 % Active power +/- 0.5 % Power factor +/- 0.01 Current +/- 0.5 % Frequency +/- 0.5 % Frequen	Complementary	
Type of measurement Apparent power min/max, total Active and reactive power min/max, total Current min/max, avg Voltage min/max, avg Frequency min/max, avg Total current harmonic distortion THD (I) per phase Total voltage harmonic distortion THD (U) per phase Power factor min/max, avg Apparent energy total Active and reactive energy total Active and reactive energy total Active power P, P1, P2, P3 Current I, I1, I2, I3 Peak demand power PM, QM, SM Voltage U, U21, U32, U13, V, V1, V2, V3 Peak demand currents Reactive power P, Q1, Q2, Q3 Demand power P, Q, S Unbalance current Active, reactive, apparent energy (signed, four quadrant) Apparent power S, S1, S2, S3 Accuracy class Class 1 reactive energy conforming to IEC 62053-24 Class 0.58 active energy conforming to IEC 62053-22 Class 5 harmonic distorsion (I THD & U THD) Measurement accuracy Apparent power Y- 0.5 % Reactive energy +/- 0.5 % Reactive energy +/- 0.5 % Power factor +/- 0.01 Current +/- 0.5 % Power factor +/- 0.05 % Frequency +/- 0.05 %	Device application	Power monitoring Sub billing
Active and reactive power min/max, total Current min/max, avg Voltage min/max, avg Frequency min/max, avg Total current harmonic distortion THD (I) per phase Total voltage harmonic distortion THD (U) per phase Power factor min/max, avg Apparent energy total Active and reactive energy total Metering type Calculated neutral current Active power P, P1, P2, P3 Current I, I1, I2, I3 Peak demand power PM, QM, SM Voltage U, U21, U32, U13, V, V1, V2, V3 Peak demand currents Reactive power Q, Q1, Q2, Q3 Demand power P, Q, S Unbalance current Active, reactive, apparent energy (signed, four quadrant) Apparent power S, S1, S2, S3 Accuracy class Class 1 reactive energy conforming to IEC 62053-24 Class 0.5S active energy conforming to IEC 62053-22 Class 5 harmonic distorsion (I THD & U THD) Measurement accuracy Apparent power +/- 0.5 % Reactive energy +/- 0.5 % Reactive energy +/- 0.5 % Reactive energy +/- 0.5 % Power 4r- 0.5 % Power 4r- 0.5 % Power factor +/- 0.05 % Frequency +/- 0.05 % F	Power quality analysis	
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20277 V AC 50/60 Hz between phase and neutral	Measurement current	56000 mA
Tooooooo viite and one in the original vii	Measurement voltage	·
Frequency measurement range 4565 Hz	Frequency measurement range	4565 Hz

[Us] rated supply voltage	80277 V AC 4565 Hz +/- 10 % 100277 V DC +/- 10 %
Network frequency	60 Hz 50 Hz
Ride-through time	50 Ms 120 V AC typical 50 Ms 230 V AC typical 50 ms 125 V DC typical
[In] rated current	5 A 1 A
Maximum power consumption in VA	8 VA at 277 V AC
Maximum power consumption in W	3.3 W (power lines (AC)) 3.3 W at 277 V (power lines (DC))
Input impedance	Current (impedance <= 0.3 mOhm) Voltage (impedance > 5 MOhm)
Tamperproof of settings	Protected by access code
Display type	Backlit LCD
Display colour	Monochrome
Display resolution	128 x 128 pixels
Demand intervals	Configurable from 1 to 60 min
Information displayed	Demand current (past value) Demand current (present value) Demand power (past value) Demand power (present value)
	Voltage Current Frequency Energy consumption Harmonic distortion Power factor Active power Apparent power Reactive power Unbalanced in % Harmonic amplitude
Control type	4 x button
Local signalling	Red LED: output signal 19999000 pulse/ k_h (kWh, kVAh, kVARh) Green LED: module operation and integrated communication
Number of inputs	0
Number of outputs	0
Communication port protocol	Modbus RTU at 4800 bps, 9600 bps, 19200 bps, 38.4 Kbps even/odd or none - 2 wires, insulation 2500 V
Communication port support	Screw terminal block: RS485
Data recording	Energy consumption logs Power logs Time stamping Min/max for 8 parameters
Function available	Real time clock
Sampling rate	64 samples/cycle
Cybersecurity	Enable/disable communication ports
Communication service	Remote monitoring
User language	Russian French Portuguese English Spanish Chinese German
Product certifications	CE conforming to IEC 61010-1 CULus conforming to UL 61010-1 CULus conforming to CSA C22.2 No 61010-1 RCM EAC C-Tick
Mounting mode	Clip-on
Mounting position	Vertical
Mounting support	Framework
Provided equipment	1 x installation guide

Measurement category	Category III 480 V Category II 480600 V	
Electrical insulation class	Double insulation Class II	
Flame retardance	V-0 conforming to UL 94	
Connections - terminals	Current transformer: screw connection (bottom) 6 Voltage inputs: screw connection (top) 4	
Material	Polycarbonate	
Width	96 mm	
Depth	Total : 76.09 mm Embedded : 61.64 mm	
Height	96 mm	
Net weight	300 g	
Compatibility code	PM2230	

Environment

Service life	7 year(s)
IP degree of protection	IP54 front: conforming to IEC 60529 IP30 body: conforming to IEC 60529
Relative humidity	595 % at 50 °C
Pollution degree	2
Ambient air temperature for operation	-1060 °C
Ambient air temperature for storage	-2570 °C
Operating altitude	<= 2000 m
Electromagnetic compatibility	Electrostatic discharge conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Surge immunity test conforming to IEC 61000-4-5 Conducted RF disturbances conforming to IEC 61000-4-6 Magnetic field at power frequency conforming to IEC 61000-4-8 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 Emission tests conforming to FCC part 15 class A
Overvoltage category	III

Packing Units

r doking office		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	11.94 cm	
Package 1 Width	12.19 cm	
Package 1 Length	8.89 cm	
Package 1 Weight	0.37 kg	

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information